Water Quality Database
Arizona Lab Data Qualifiers

Lab Qualifier Code	Description
A1	MICROBIOLOGY: TOO NUMEROUS TO COUNT.
A2	MICROBIOLOGY: SAMPLE INCUBATION PERIOD EXCEEDED METHOD REQUIREMENT.
A3	MICROBIOLOGY: SAMPLE INCUBATION PERIOD WAS SHORTER THAN METHOD REQUIREMENT.
A4	MICROBIOLOGY: TARGET ORGANISM DETECTED IN ASSOCIATED METHOD BLANK.
A5	MICROBIOLOGY: INCUBATOR/WATER BATH TEMPERATURE WAS OUTSIDE METHOD REQUIREMENTS.
A6	MICROBIOLOGY: TARGET ORGANISM NOT DETECTED IN ASSOCIATED POSITIVE CONTROL.
A7	MICROBIOLOGY: MICRO SAMPLE RECEIVED WITHOUT ADEQUATE HEADSPACE.
A8	MICROBIOLOGY: PLATE COUNT WAS OUTSIDE THE METHODS REPORTING RANGE. REPORTED VALUE IS ESTIMATED.
B1	METHOD BLANK: TARGET ANALYTE DETECTED IN METHOD BLANK AT OR ABOVE THE METHOD REPORTING LIMIT.
B2	METHOD BLANK: NON-TARGET ANALYTE DETECTED IN METHOD BLANK AND SAMPLE, PRODUCING INTERFERENCE.
B3	METHOD BLANK: TARGET ANALYTE DETECTED IN CALIBRATION BLANK AT OR ABOVE THE METHOD REPORTING LIMIT.
B4	METHOD BLANK: TARGET ANALYTE DETECTED IN BLANK AT OR ABOVE METHOD ACCEPTANCE CRITERIA.
B5	METHOD BLANK: TARGET ANALYTE DETECTED IN METHOD BLANK AT OR ABOVE THE METHOD REPORTING LIMIT, BUT BELOW TRIGGER LEVEL OR MCL.
B6	METHOD BLANK: TARGET ANALYTE DETECTED IN CALIBRATION BLANK AT OR ABOVE THE METHOD REPORTING LIMIT, BUT BELOW TRIGGER LEVEL OR MCL.
B7	METHOD BLANK: TARGET ANALYTE DETECTED IN METHOD BLANK AT OR ABOVE METHOD REPORTING LIMIT.CONCENTRATION FOUND IN THE SMP WAS 10 TIMES ABOVE THE CONCENTRATION FOUND IN THE MTHD BLK.
C1	CONFIRMATION: CONFIRMATORY ANALYSIS NOT PERFORMED AS REQUIRED BY THE METHOD.
C3	CONFIRMATION: QUALITATIVE CONFIRMATION PERFORMED.
C4	CONFIRMATION: CONFIRMATORY ANALYSIS WAS PAST HOLDING TIME.
C5	CONFIRMATION. CONFIRMATORY ANALYSIS WAS PAST HOLDING TIME. ORIGINAL RESULT NOT CONFIRMED.
C6	SAMPLE RPD BETWEEN PRIMARY AND CONFIRMATORY ANALYSIS EXCEEDED 40%. PER EPA METHOD 8000B, THE HIGHER VALUE WAS REPORTED AS THERE WAS NO OBVIOUS CHROMATOGRAPHIC INTERFERENCE.
C7	SAMPLE RPD BETWEEN PRIMARY AND CONFIRMATORY ANALYSIS EXCEEDED 40%. PER EPA METHOD 8000B, THE LOWER VALUE WAS REPORTED DUE TO APPARENT CHROMATOGRAPHIC INTERFERENCE.
C8	SAMPLE RPD BETWEEN THE PRIMARY AND CONFIRMATORY ANALYSIS EXCEEDED 40%. PER EPA METHOD 8000C, THE LOWER VALUE WAS REPORTED AS THERE WAS NO EVIDENCE OF CHROMATOGRAPHIC PROBLEMS.
D1	DILUTION: SAMPLE REQUIRED DILUTION DUE TO MATRIX.
D2	DILUTION: SAMPLE REQUIRED DILUTION DUE TO HIGH CONCENTRATION OF TARGET ANALYTE. SEE CASE NARRATIVE.
D3	ARCHIVED FOR HISTORICAL DATA ON 20080128 NOT AVAILABLE FOR USE: DILUTION: SAMPLE DILUTION REQUIRED DUE TO INSUFFICIENT SAMPLE
D4	DILUTION: MINIMUM REPORTING LEVEL LIMIT (MRL) ADJUSTED TO REFLECT SAMPLE AMOUNT RECEIVED AND ANALYZED.

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D5	DILUTION: MINIMUM REPORTING LIMIT (MRL) ADJUSTED DUE TO SAMPLE DILUTION; ANALYTE WAS NON-DETECT IN THE SAMPLE.
D6	MINIMUM REPORTING LIMIT ADJUSTED DUE TO AN AUTOMATIC 10X DILUTION PERFORMED ON THIS SAMPLE FOR THE PURPOSE OF REPORTING TRADITIONAL DRINKING WATER ANALYTES FOR WW REQUIREMENTS.
E1	ESTIMATED CONCENTRATION: CONCENTRATION ESTIMATED. ANALYTE EXCEEDED CALIBRATION RANGE. REANALYSIS NOT POSSIBLE DUE TO INSUFFICIENT SAMPLE.
E2	ESTIMATED CONCENTRATION: CONCENTRATION ESTIMATED. ANALYTE EXCEEDED CALIBRATION RANGE. REANALYSIS NOT PERFORMED DUE TO SAMPLE MATRIX.
E3	ESTIMATED CONCENTRATION: CONCENTRATION ESTIMATED. ANALYTE EXCEEDED CALIBRATION RANGE. REANALYSIS NOT PERFORMED DUE TO HOLDING TIME REQUIREMENTS.
E4	ESTIMATED CONCENTRATION: CONCENTRATION ESTIMATED. ANALYTE WAS DETECTED BELOW LABORATORY MINIMUM REPORTING LEVEL LIMIT (MRL).
E5	ESTIMATED CONCENTRATION: CONCENTRATION ESTIMATED. ANALYTE WAS DETECTED BELOW LABORATORY MINIMUM REPORTING LEVEL LIMIT (MRL), BUT NOT CONFIRMED BY ALTERNATE ANALYSIS.
E6	ESTIMATED CONCENTRATION: CONCENTRATION ESTIMATED. INTERNAL STANDARD RECOVERIES DID NOT MEET METHOD ACCEPTANCE CRITERIA.
E7	ESTIMATED CONCENTRAITON: CONCENTRATION ESTIMATED. INTERNAL STANDARD RECOVERIES DID NOT MEET LABORATORY ACCEPTANCE CRITERIA.
E8	ANALYTE REPORTED TO MDL PER PROJECT SPECIFICATION. TARGET ANALYTE WAS NOT DETECTED IN THE SAMPLE.
H1	HOLD TIME: SAMPLE ANALYSIS PERFORMED PAST HOLDING TIME.
H2	HOLD TIME: INITIAL ANALYSIS WITHIN HOLDING TIME. REANALYSIS FOR THE REQUIRED DILUTION WAS PAST HOLDING TIME.
H3	HOLD TIME: SAMPLE WAS RECEIVED AND ANALYZED PAST HOLDING TIME.
H4	HOLD TIME: SAMPLE WAS EXTRACTED PAST REQUIRED EXTRACTION HOLDING TIME, BUT ANALYZED WITHIN ANALYSIS HOLDING TIME.
H5	HOLD TIME: THIS TEST IS SPECIFIED TO BE PERFORMED IN THE FIELD WITHIN 15 MINUTES OF SAMPLING; SAMPLE WAS RECEIVED AND ANALYZED PAST THE REGULATORY HOLDING TIME.
K1	BOD/CBOD: THE SAMLE DILUTIONS SET-UP FOR THE BOD/CBOD ANALYSIS DID NOT MEET THE OXYGEN DEPLETION CRITERIA OF AT LEAST 2 MG/L. THE REPORTED RESULT IS AN ESTIMATED VALUE.
K2	BOD: THE SAMPLE DILUTIONS SET UP FOR THE BOD/CBOD ANALYSIS FAILED TO MEET THE CRITERIA OF A RESIDUAL DISSOLVED OXYGEN OF AT LEAST 1 MG/L. THE REPORTED RESULT IS AN ESTIMATED VALUE.
K4	ARCHIVED FOR HISTORICAL DATA ON 20080128 ¿ NOT AVAILABLE FOR USE: BOD/CBOD: THE SEED DEPLETION WAS OUTSIDE THE METHOD ACCEPTANCE LIMITS. THE REPORTED RESULT IS AN ESTIMATED VALUE.
K5	BOD/CBOD: THE DILUTION WATER D.O. DEPLETION WAS > 0.2 MG/L.
K6	BOD/CBOD: GLUCOSE/GLUTAMIC ACID BOD/CBOD WAS BELOW METHOD ACCEPTANCE CRITERIA
K7	BOD/CBOD: A DISCREPANCY BETWEEN THE BOD AND COD RESULTS HAS BEEN VERIFIED BY REANALYSIS OF THE SAMPLE FOR COD
K8	BOD/CBOD: GLUCOSE / GLUTAMIC ACID BOD/CBOD WAS ABOVE METHOD ACCEPTANCE LEVELS.
L1	LABORATORY FORTIFIED BLANK/BLANK SPIKE: THE ASSOCIATED BLANK SPIKE

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	RECOVERY WAS ABOVE LABORATORY ACCEPTANCE LIMITS.
L2	LABORATORY FORTIFIED BLANK/BLANK SPIKE: THE ASSOCIATED BLANK SPIKE RECOVERY WAS BELOW LABORATORY ACCEPTANCE LIMITS.
L3	LABORATORY FORTIFIED BLANK/BLANK SPIKE: THE ASSOCIATED BLANK SPIKE RECOVERY WAS ABOVE METHOD ACCEPTANCE LIMITS.
L4	LABORATORY FORTIFIED BLANK/BLANK SPIKE: THE ASSOCIATED BLANK SPIKE RECOVERY WAS BELOW METHOD ACCEPTANCE LIMITS.
M1	MATRIX SPIKE: MATRIX SPIKE RECOVERY WAS HIGH, THE METHOD CONTROL SAMPLE ASSOCIATED BLANK SPIKE RECOVERY WAS ACCEPTABLE
M2	MATRIX SPIKE: MATRIX SPIKE RECOVERY WAS LOW, THE METHOD CONTROL SAMPLE ASSOCIATED BLANK SPIKE RECOVERY WAS ACCEPTABLE.
M3	MATRIX SPIKE: THE SPIKE RECOVERY VALUE IS UNUSABLE THE ANALYTE CONCENTRATION IN THE SAMPLE IS DISPROPORTIONATE TO THE SPIKE LEVEL THE ASSOCIATED BLANK SPIKE RECOVERY WAS ACCEPTABLE
M4	MATRIX SPIKE: THE ANALYSIS OF THE SPIKED SAMPLE REQUIRED A DILUTION SUCH THAT THE SPIKE RECOVERY CALCULATION DOES NOT PROVIDE USEFUL INFO THE ASSOCIATED BLANK SPIKE WAS ACCEPTABLE.
M5	MATRIX SPIKE: ANALYTE CONCENTRATION WAS DETERMINED BY THE METHOD OF STANDARD ADDITION (MSA).
M6	MATRIX SPIKE: MATRIX SPIKE RECOVERY WAS HIGH. DATA REPORTED PER ADEQ POLICY 0154.000.
M7	MATRIX SPIKE: MATRIX SPIKE RECOVERY WAS LOW. DATA REPORTED PER ADEQ POLICY 0154.000.
N1	GENERAL: SEE CASE NARRATIVE.
N2	GENERAL: SEE CORRECTIVE ACTION REPORT.
N3	ARCHIVED FOR HISTORICAL DATA ON 20080128 ¿ NOT AVAILABLE FOR USE: GENERAL: THE ANALYSIS MEETS ALL METHOD REQUIREMENTS. SEE CASE NARRATIVE.
N4	GENERAL: THE MINIMUM REPORTING LIMIT (MRL) VERIFICATION CHECK DID NOT MEET THE LABORATORY ACCEPTANCE LIMIT.
N5	GENERAL: THE MINIMUM REPORTING LIMIT (MRL) VERIFICATION CHECK DID NOT MEET THE METHOD ACCEPTANCE LIMIT.
N6	GENERAL: DATA SUSPECT DUE TO QUALITY CONTROL FAILURE, REPORTED PER DATA USER¿S REQUEST.
Q1	SAMPLE QUALITY: SAMPLE INTEGRITY WAS NOT MAINTAINED. SEE CASE NARRATIVE.
Q10	SAMPLE QUALITY: SAMPLE RECEIVED IN INAPPROPRIATE SAMPLE CONTAINER.
Q11	SAMPLE QUALITY: SAMPLE IS METEROGENEOUS. SAMPLE HOMOGENEITY COULD NOT BE READILY ACHIEVED USING ROUTINE LABORATORY PRACTICES.
Q2	SAMPLE QUALITY: SAMPLE RECEIVED WITH HEAD SPACE.
Q3	SAMPLE QUALITY: SAMPLE RECEIVED WITH IMPROPER CHEMICAL PRESERVATION.
Q4	SAMPLE QUALITY: SAMPLE RECEIVED AND ANALYZED WITHOUT CHEMICAL PRESERVATION
Q5	SAMPLE QUALITY: SAMPLE RECEIVED WITH INADEQUATE CHEMICAL PRESERVATION, BUT PRESERVED BY THE LABORATORY.
Q6	SAMPLE QUALITY: SAMPLE WAS RECEIVED ABOVE RECOMMENDED TEMPERATURE.
Q7	SAMPLE QUALITY: SAMPLE INADEQUATELY DECHLORINATED.
Q8	SAMPLE QUALITY: INSUFFICIENT SAMPLE RECEIVED TO MEET METHOD QC REQUIREMENTS. BATCH QC REQUIREMENTS SATISFY ADEQ POLICIES 0154.000

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	AND 0155.000.
Q9	SAMPLE QUALITY: INSUFFICIENT SAMPLE RECEIVED TO MEET METHOD QC REQUIREMENTS.
R1	DUPLICATES: RPD/RSD EXCEEDED THE METHOD CONTROL ACCEPTANCE LIMIT. SEE CASE NARRATIVE.
R10	DUPLICATES: SAMPLE RPD BETWEEN PRIMARY AND CONFIRMATORY ANALYSIS EXCEEDED 40%. PER EPA METHOD 8000B, THE LOWER VALUE WAS RPD DUE TO APPARENT CHROMATOGRAPHIC PROBLEMS.
R11	DUPLICATES: THE RPD CALCULATION FOR MS/MSD DOES NOT PROVIDE USEFUL INFORMATION DUE TO THE VARYING SAMPLE WEIGHTS WHEN ENCORE SAMPLERS/METHANOL FIELD PRESERVED SAMPLES ARE USED.
R2	DUPLICATES: RPD/RSD EXCEEDED THE LABORATORY CONTROL ACCEPTANCE LIMIT. SEE CASE NARRATIVE
R4	DUPLICATES: MS/MSD RPD EXCEEDED THE METHOD CONTROL ACCEPTANCE LIMIT. RECOVERY MET ACCEPTANCE CRITERIA
R5	DUPLICATES: MS/MSD RPD EXCEEDED THE LABORATORY CONTROL ACCEPTANCE LIMIT. RECOVERY MET ACCEPTANCE CRITERIA.
R6	DUPLICATES: LFB/LFBD RPD EXCEEDED THE METHOD CONTROL ACCEPTANCE LIMIT. RECOVERY MET ACCEPTANCE CRITERIA.
R7	DUPLICATES: LFB/LFBD RPD EXCEEDED THE LABORATORY CONTROL ACCEPTANCE LIMIT. RECOVERY MET ACCEPTANCE CRITERIA
R8	DUPLICATES: SAMPLE RPD EXCEEDED THE METHOD CONTROL ACCEPTANCE LIMIT.
R9	DUPLICATES: SAMPLE RPD EXCEEDED THE LABORATORY CONTROL ACCEPTANCE LIMIT.
S1	SURROGATE: SURROGATE RECOVERY WAS ABOVE LABORATORY ACCEPTANCE LIMITS, BUT WITHIN METHOD ACCEPTANCE LIMITS.
S10	SURROGATE: SURROGATE RECOVERY WAS ABOVE LABORATORY AND METHOD ACCEPTANCE LIMITS. SEE CASE NARRATIVE.
S11	SURROGATE: SURROGATE RECOVERY WAS HIGH. DATA REPORTED PER ADEQ POLICY 0154.000.
S12	SURROGATE: SURROGATE RECOVERY WAS LOW. DATA REPORTED PER ADEQ POLICY 0154.000.
S3	SURROGATE: SURROGATE RECOVERY WAS ABOVE LABORATORY ACCEPTANCE LIMITS, BUT WITHIN METHOD ACCEPTANCE LIMITS. NO TARGET ANALYTES WERE DETECTED IN THE SAMPLE.
S4	SURROGATE: SURROGATE RECOVERY WAS ABOVE LABORATORY AND METHOD ACCEPTANCE LIMITS. NO TARGET ANALYTES WERE DETECTED IN THE SAMPLE.
S5	SURROGATE: SURROGATE RECOVERY WAS BELOW LABORATORY ACCEPTANCE LIMITS, BUT WITHIN METHOD ACCEPTANCE LIMITS.
S6	SURROGATE: SURROGATE RECOVERY WAS BELOW LABORATORY AND METHOD ACCEPTANCE LIMITS. REEXTRACTION AND/OR REANALYSIS CONFIRMS LOW RECOVERY CAUSED BY MATRIX EFFECT.
S7	SURROGATE: SURROGATE RECOVERY WAS BELOW LABORATORY AND METHOD ACCEPTANCE LIMITS. UNABLE TO CONFIRM MATRIX EFFECT.
S8	SURROGATE: THE ANALYSIS OF THE SAMPLE REQUIRED DILUTION SUCH THAT THE SURROGATE RECOVERY CALCULATION DOES NOT PROVIDE USEFUL INFORMATION. THE ASSOCIATED BLANK SPIKE WAS ACCEPTABLE.
T1	METHOD/ANALYTE DISCREPANCIES: METHOD APPROVED BY EPA, BUT NOT YET LICENSED BY ADHS.
T2	METHOD/ANALYTE DISCREPANCIES: CITED ADHS LICENSED METHOD DOES NOT CONTAIN THIS ANALYTE AS PART OF METHOD COUMPOUND LIST.

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T3	METHOD/ANALYTE DISCREPANCIES: METHOD NOT PROMULGATED EITHER BY EPA OR ADHS.
T4	METHOD/ANALYTE DISCREPANCIES: TENTATIVELY IDENTIFIED COMPOUND. CONCENTRATION IS ESTIMATED AND BASED ON TEH CLOSEST INTERNAL STANDARD.
T5	METHOD/ANALYTE DISCREPANCIES: LABORATORY NOT LICENSED FOR THIS PARAMETER (METHOD, OR METHOD AND ANALYTE).
T6	METHOD/ANALYTE DISCREPANCIES: THE REPORTED RESULT CANNOT BE USED FOR COMPLIANCE PURPOSES.
T7	METHOD/ANALYTE DISCREPANCIES: INCUBATOR/OVEN TEMPERATURES WERE NOT MONITORED AS REQUIRED DURING ALL DAYS OF USE.
V1	CALIBRATION VERIFICATION: CCV RECOVERY WAS ABOVE METHOD ACCEPTANCE LIMITS. THIS TARGET ANALYTE WAS NOT DETECTED IN THE SAMPLE.
V2	CALIBRATION VERIFICATION: CCV RECOVERY WAS ABOVE METHOD ACCEPTANCE LIMITS.THIS TARGET ANALYRTE WAS DETECTED IN THE SAMPLE.SAMPLE COULD NOT BE REANALYZED DUE TO INSUFICIENT SAMPLE.
V3	CALIBRATION VERIFICATION: CCV RECOVERY WAS ABOVE METHOD ACCEPTANCE LIMITS. THIS TARGET ANALYTE WAS DETECTED IN THE SAMPLE, BUT THE SAMPLE WAS NOT REANALYZED. SEE CASE NARRATIVE.
V4	CALIBRATION VERIFICATION: CCV RECOVERY WAS BELOW METHOD ACCEPTANCE LIMITS. THE SAMPLE COULD NOT BE REANALYZED DUE TO INSUFFICIENT SAMPLE.
V5	CALIBRATION VERIFICATION: CCV RECOVERY AFTER A GROUP OF SAMPLES WAS ABOVE ACCEPTANCE LIMITS. THIS TARGET ANALYTE WAS NOT DETECTED IN THE SAMPLE; ACCEPTABLE PER EPA METHOD 8000C.
V6	CALIBRATION VERIFICATION: DATA REPORTED FROM ONE-POINT CALIBRATION CRITERIA PER ADEQ POLICY 0155.000.
V7	CALIBRATION VERIFICATION: CV RECOVERY WAS ABOVE THE METHOD CONTROL LIMIT FOR THIS ANALYTE, HOWEVER, AVERAG % DIFFERENCE OR % DRIFT FOR ALL THE ANALYTES MET METHOD CRITERIA.
V8	CALIBRATION VERIFICATION: CV RECOVERY WAS BELOW THE METHOD CONTROL LIMIT FOR THIS ANALYTE, HOWEVER, THE AVERAGE % DIFFERENCE OR % DRIFT FOR ALL THE ANALYTES MET METHOD CRITERIA
V9	CALIBRATION VERIFICATION: CCV RECOVERY WAS BELOW METHOD ACCEPTANCE LIMITS.
W1	CALIBRATION: THE % RSD FOR THIS COMPOUND WAS ABOVE 20%. THE AVERAGE % RSD FOR ALL COMPOUNDS IN THE CALIBRATION MET THE 20% CRITERIA AS SPECIFIED IN EPA METHOD 8000B.
W2	CALIBRATION: THE % RSD FOR THIS COMPOUND WAS ABOVE 15%. THE AVERAGE % RSD FOR ALL COMPOUNDS IN THE CALIBRATION MET THE 15% CRITERIA AS SPECIFIED IN EPA METHOD 8260B/8270C